1687. 15

Apollo Anglicanus,

THE

ENGLISH APOLLO:

Assisting

All Persons in the right Understanding of this Years Revolution, as also of things past, present, and to come.

With necessary Tables plain and useful.

A twofold Kalendar, *viz.* *Julian* or *English*, *Gregorian* or *Forein* Computations, more plain and full than any other, with the Rising and Setting of the Sun, the nightly Rising and Setting of the Moon, and also her Southing, Exactly calculated for every day. Of general use for most men.

Being the Third after Bissextile *or Leap-Year.*

To which is added the Moons application to the fixed Stars: With the Calculations of the Eclipses: also Rules and Tables for the measuring of Timber: with many other things both pleasant, useful and necessary.

Calculated according to Art, and fitted to the Meridian of *Leicester*, whose Latitude is 52 Degrees, 41 Minutes. Exactly fitting all the middle Counties of *England*, and without sensible Error the whole Kingdom.

By RICHARD SAUNDERS,

Student in the Physical-Cœlestial Scieneer.

LONDON, Printed by *M. Clark* for the Company of Stationers 1687.

The *Julian* or old Account uſed in *Engl.*		1687.	The *Gregorian* or New Stile uſed beyond Sea.	
	16	The Golden Number.		16
	ℬ	The Dominical Letters		ℰ
	26	The Epact.		16
February	6	Shrove Sunday.	February	9
May	5	Aſcenſion-Day.	May	8
May	15	Whit-Sunday..	May	18
November	27	Advent-Sunday.	November	30

A Table of the four Terms and their Returns, &c.

Hilary-Term begins *January* 24. ends *February* 12.

Octab. Hillar. Jan.	20	January	21	Jan.	22	Jan.	24
Quind. Hillar. Jan.	27	January	28	Jan.	29	Jan.	31
Craſtin. Purif. Feb.	3	February	4	Febr.	5	Febr.	7
Octab. Purif. Feb.	10	February	11	Febr.	11	Febr.	12

Eaſter Term begins *April* 13. ends *May* 9.

Quind. Paſch. Apr.	11	April	12	April	13	April	13
Tres Paſch. April	18	April	19	April	2	April	21
Menſ. Paſch. Apr.	25	April	26	April	27	April	28
Quinq. Paſch. May	2	May	3	May	4	May	5
Craſt. Aſcenſ. May	6	May		May	7	May	9

BRITISH MUSEUM

Trinity Term begins [illegible]27. ends *June* 15.

Craſt. Trin. May	23	May	24	May	25	May	27
Octab. Trin. May	30	May	31	June	1	June	2
Quind. Trin. June	6	June	7	June	8	June	9
Tres Trin. June	13	June	14	June	14	June	15

Michaelmas Term begins *Octob.* 24. ends *Novemb.* 28.

Tres Mich. Octob.	20	Octob.	21	Octob.	22	October	24
Menſ. Mich. Octob.	27	Octob.	28	Octob.	29	October	31
Craſt. Anim. Nov.	3	Novemb.	4	Novemb.	5	Novemb.	7
Craſt. Mart. Nov.	12	Novemb.	14	Novemb.	14	Novemb.	15
Octab. Mart. Nov.	19	Novemb.	21	Novemb.	21	Novemb.	22
Quind. Mart. Nov.	26	Novemb.	26	Novemb.	28	Novemb.	28

A Table of the Kings and Queens of *England* since the Conquer.

Kings and Queens names.	Born Anno	*Began to reign.*	Reigned Since their Reigns ended. Y.	M.	Buried at
William 1	1029	1066, Oct. 14	20	11	600, Septem. 9 Caen Nc.
William 2	1056	1087, Sep. 9	12	11	587, August 2 Winches.
Henry 1	1068	1100, Aug. 2	35	4	552, Decem. 1 Reding
Stephen	1105	1135, Dec. 1	18	11	533, Octob. 12 Feversh.
The Saxon Line restor'd.					
Henry 2	1132	1154, Oct. 12	35	9	498, July 6 Fountever
Richard 1	1155	1189, July 6	9	9	488, April 6 Fountever
John	1165	1199, April 6	17	6	471, Octob. 19 Worceſter
Henry 3	1207	1216, Oct. 19	56	1	415, Nov. 16 Weſtmin.
Edward 1	1239	1272, No. 16	34	8	380, July 7 Weſtmin.
Edward 2	1283	1307, July 7	19	6	361, Jan. 25 Gloceſter
Edward 3	1312	1326, Jan. 25	51	5	310, June 21 Weſtmin.
Richard 2	1366	1377, Jun. 21	22	3	288, Septe. 29 Weſtmin.
The Line of Lancaſter.					
Henry 4	1367	1399, Sep. 29	13	6	274, Mar. 20 Canterb.
Henry 5	1384	1412, Mar. 20	9	5	265, Aug. 31 Weſtmin.
Henry 6	1421	1422, Aug. 31	38	6	227, Mar. 4 Windſor
The Line of York.					
Edward 4	1442	1460, Mar. 4	23	1	204, April 9 Winchest
Edward 5	1471	1483, Apr. 9	0	1	204, June 18 Not kno.
Richard 3	1448	1483, Jun. 18	2	2	202, Aug. 22 Leiſt. (w
The Families United.					
Henry 7	1455	1485, Aug. 22	23	8	179, April 22 Weſtmin.
Henry 8	1491	1509, Apr. 22	37	10	140, Jan. 28 Windſor
Edward 6	1537	1547, Jan. 28	6	5	134, July 6 Weſtmin.
Qu. Mary	1518	1553, July 6	5	4	129, Nov. 17 Weſtmin.
Qu. Elizab.	1533	1558, No. 17	44	4	85, March 24 Weſtmin.
The Union of the two Kingdoms.					
James 1	1566	1602, Ma. 24	22	0	68, March 27 Weſtmin.
Charles 1	1600	1625, Ma. 27	23	11	38, Janu. 30 Windſor
Charles 2	1630	1648, Jan. 30	36	0	2, Februar. 6 Weſtmin.
James 2	1633	1684, Feb. 6	Whom God grant long to live.		

When *David* reign'd, as th' Scriptures do us tell,
Proud *Abſalom*, and great *Achitophel*
Did live and plot; and alſo in thoſe days
Were other Plottings, ſuch as was *Sheba's*
Conſpiracy: (Methinks in this our age,
Men much like th ſe have paſſed o'er the Stage.)
As theſe did ſpeed in what they did, ſay I
Let all that ſtrive, like them to live, ſo dye.

A Table shewing the hour and minute of the Moons coming to the South every day the first six Months of this Year, 1687.

Days.	Jan.		Febr.		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	9	33	11	15	9	57	11	32	12	0	1 A.	18
2	10	34	12	15	10	54	21	23	12	52	2	10
3	11	36	1 A.	12	11	50	1 A.	15	1 A.	46	2	0
4	12	38	2	4	12	44	2	7	2	39	3	45
5	1 A.	38	2	55	1 A.	38	3	0	3	31	4	27
6	2	34	3	45	2	30	3	52	4	21	5	8
7	3	27	4	32	3	22	4	44	5	8	5	50
8	4	18	5	21	4	14	5	34	5	52	6	30
9	5	7	6	11	5	5	6	23	6	33	7	12
10	5	53	7	2	5	55	7	12	7	15	8	56
11	6	40	7	52	6	45	8	0	8	0	8	44
12	7	28	8	41	7	35	8	44	8	41	9	36
13	8	18	9	30	8	22	9	24	9	25	10	30
14	9	10	10	18	9	8	10	2	10	11	11	30
15	10	0	11	4	10	52	10	46	11	2	12	32
16	10	48	11	48	10	36	11	32	11	57	0 M.	32
17	11	34	12	30	11	18	12	19	12	55	1	34
18	12	20	0 M.	30	12	0	0 M.	19	0 M.	55	2	34
19	0 M.	20	1	12	0 M.	0	1	12	1	53	3	30
20	1	5	1	54	0	44	2	8	2	53	4	22
21	1	48	2	38	1	30	3	4	3	53	5	12
22	2	30	3	24	2	18	4	2	4	48	6	0
23	3	12	4	12	3	9	5	2	5	41	6	48
24	3	54	5	4	4	4	6	0	6	31	7	38
25	4	40	6	2	5	2	6	54	7	18	8	32
26	5	30	7	0	6	0	7	45	8	6	9	26
27	6	20	8	0	7	0	8	36	8	56	10	14
28	7	12	9	0	7	56	9	26	9	48	11	2
29	8	8			8	53	10	16	10	40	11	54
30	9	10			9	48	11	5	11	33	12	46
31	10	14			10	40			12	26		

The Moons Southing for every day of the last Six Months of this Year 1687.

Days	July		August		Septemb.		October		Novemb.		Decemb.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	1 A.	34	2 A.	22	3	20	4	0	5	42	6	5
2	2	18	3	2	4	6	4	54	6	35	6	54
3	3	0	3	42	4	56	5	50	7	27	7	42
4	3	41	4	26	5	54	6	47	8	18	8	32
5	4	22	5	12	6	52	7	42	9	9	9	24
6	5	2	6	4	7	51	8	36	10	0	10	17
7	5	45	7	4	8	50	9	32	10	53	11	15
8	6	31	8	6	9	48	10	26	11	47	12	12
9	7	20	9	4	10	44	11	20	12	40	0 M.	12
10	8	12	10	0	11	38	12	12	0 M.	40	1	4
11	9	10	11	0	12	32	0 M.	12	1	36	1	52
12	10	8	12	0	0 M.	32	1	6	2	31	2	40
13	11	8	0 M.	0	1	26	2	0	3	24	3	26
14	12	10	0	55	2	18	2	56	4	14	4	10
15	0 M.	10	1	48	3	10	3	53	5	0	4	52
16	1	9	2	40	4	4	4	45	5	46	5	32
17	2	8	3	30	5	0	5	35	6	30	6	13
18	3	5	4	22	5	56	6	23	7	10	6	53
19	4	0	5	14	6	50	7	10	7	50	7	34
20	4	50	6	7	7	40	7	55	8	32	8	20
21	5	34	7	0	8	26	8	38	9	16	9	11
22	6	22	7	50	9	10	9	19	10	0	10	8
23	7	14	8	38	9	53	10	0	10	50	11	5
24	8	8	9	24	10	35	10	43	11	40	12	3
25	9	0	10	10	11	18	11	27	12	35	1 A.	0
26	9	50	10	55	12	0	12	13	1 A.	30	2	56
27	10	40	11	40	12	44	1 A.	2	2	28	2	50
28	11	28	12	28	1 A.	27	1	55	3	26	3	4
29	12	14	1 A.	10	2	12	2	50	4	20	4	34
30	12	56	1	52	3	4	3	50	5	14	5	24
31	1 A.	40	2	36			4	46			6	15

To find the time of High-water in most Coasts of England.

FIrst seek the Moons Southing on the foregoing Table for your day, for then you may conclude it High-water at *Southampton*, *Quinborough*, and *Portsmouth*, for there the South and North Moons make a High-water. But when you desire the time of full Sea in any of the following Coasts in the ensuing Table, find the name of the place, and see how many hours and Minutes be annexed thereunto in the Column under H. M. which added to the time of the Moons coming to South, gives you the time of High-water for the place required.

Tide A Table, with the names of the Havens.

	H.	M.
Rochester, Malden, Aberdeen,	0	45
Gravesend, Romney, Ramkins,	1	30
London, Tinmouth, Hartlepool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcastle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plymouth, Hull,	6	0
Bristol, Lanion, Foulness,	6	45
Milford, Bridgwater, North-coast,	7	30
Portland, Peterport, Hurtflew,	8	15
Dover, Yarmouth, Harwich, Dublin,	10	30
Callice, Rye, Winchelsey, Calshot,	11	15

Example.

The 22. of *Apr.* this Year it is required to know the time of High-Water at *London*: by the Tab. of the Moons Southing over against the 22. of *April*, I find the Moon South at 4 hours, 2 m. in the Morning: then in the Tide-Table against *London*, I find 3 hours 0 minutes, which added to 4 hours 2 minutes, makes 7 hours 2 minutes, being the time of High-water at *London* the 22. day of *April* in the Afternoon. So of any other.

NOTE, That the Tide floweth one point of the Compass more at the New and Full of the Moon, than at the First and Last Quarters: as also the Latitude of the Moon and Wind, may alter it an hour sooner or later.

Directions for the ſubſequent Diary or Almanack.

IN the firſt Column to the left hand on the left-hand Page you have the Numerical Figures of the days of the Month.

In the ſecond Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as alſo the Moons application to the fixed Stars, by which the Afteriſms and Conſtellations may be eaſily known to an Ingenious eye and underſtanding.

In the fourth Column the Moons place in the Zodiack every day at noon.

In the fifth Column the Riſing and Setting of the Moon, with reſpect to her Latitude.

In the ſixth Column the Mutual Aſpects of the Planets, with the general ſtate of the Weather.

In the firſt Column on the Right hand Page you have the Engliſh Account.

In the ſecond Column you have the Roman Account.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Kalendar and Saints days.

In the fifth Column you have Poetical Stories of the fixed Stars and Conſtellations, ſhewing the reaſon why ſuch various Figures are placed in Heaven.

The ſixth, ſeventh, and eight Columns, the utmoſt to the Right hand, ſhew you the daily Riſing and Setting of the Sun.

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January hath xxxi. days.

New Moon the 3 day, 30 min. paſt 8 at night.
First quarter the 10 day, at 1 in the afternoon.
Full Moon the 18 day, 45 min. paſt Noon.
Laſt quarter the 26 day, at 1 in the Afternoon.

1	g	New years day	ſagit. 19	5	M. 42			windy at the be-
2	A	2 Sun. p. Chriſt.	capri. 4	7	2			☌☉♂ ginning
3	b	☽ n. Vult. Ta.	capri. 19	New	●	I		with moiſture
4	c	☽ n. Swans wi.	aqua. 4	4	A. 32			♂☉☿ probabl.
5	d	☽ n. left. ſho. ♒	aqua. 19	6	4			✶♂☿ Snow &
6	e	Epiphany	piſc. 4	7	30			♂☿☿ plenty
7	f	♄ ♒ 12	piſc. 19	8	52			thereof, & right
8	g	☿ ♐ 15	aries 3	10	12		Moons Setting.	cold winterly
9	A	1 Sun. paſt Epiph.	aries 17	11	40			weather for ſome
10	b	Sol in Aquar.	taur. 0	1	10			✶♂☿ days;
11	c	♂ ♑ 29	taur. 13	1	M. 10			but about this
12	d	♀ ♒ 0	taur. 26	2	32			time 'tis hoped
13	e	Hillary	gem. 8	3	46			we may have a
14	f	☿ ♍ 16	gem. 21	5	6			more temperate
15	g	☊ ♉ 27	canc. 3	6	10			ſeaſon, which
16	A	2 paſt Epiph.	canc. 15	7	0			may continue
17	b	☽ n. Aſſellus	canc. 27	7	30			without much
18	c	☽ n. Hydra He	leo 9	Full	●	I		alteration till af-
19	d	☽ n. Cor leonis	leo 21	5	A. 5			ter the Full
20	e	☽ n. le Ku. Leo	virgo 3	6	16			Moon; then we
21	f	☽ n. Lions Tail	virgo 15	7	28			△☉♄ may ex-
22	g	☽ n. Vindeniat	virgo 27	8	49			△♄☿ pect cold
23	A	Septuageſim.	libr. 9	9	54		Moon Riſing.	& moiſt weath.
24	b	Term begins	libr. 21	11	12			♂☉☿ & about
25	c	Conv. S. Paul	ſcor. 4	12	31			the 26, or 27
26	d	☽ n. Nor. Ball.	ſcor. 17	0	M. 31			day windy and
27	e	☽ n. le. Ku. Oph.	ſagit. 0	1	50			✶☉♓ ✶☿☿
28	f	☽ n. Head Oph.	ſagit. 13	3	8			ſtormy, alſo a
29	g	☽ n. R. Shou. Op.	ſagit. 27	4	28			ſharp air to the
30	A	K. Char. I. Mar.	capr. 12	5	44			end of the
31	b	☽ n. Bri. ✶ Vul.	capr. 27	6	44			month.

JANUARY, 1687.

Saturn riseth betwixt 10 and 11 at night, and is South betwixt 4 and 5 in the morning.
Jupiter riseth about break of day.
Mars riseth a little before day.
Venus is combust, *Mercury* at the beginning is combust, but toward the end he emergeth from the Sun beams, and riseth before him.

Engl. Accom.	Forai. Accompt.	Rom. Kalenda.	Rom. Sts. Days.		
1	11	d	Hyginus	Aldebaran, the South eye of the Bull, being a great red star, and following the 7 Stars, is South about 3 quarters past 8 at night, and sets about 4 in the morning. This Star with 4 other, making the form of the Roman Letter V, are called Hyades, and are feigned by the Poets to be the Daughters of Atlas, who bewailing the death of their Broth. Hyas, died for sorrow, and were afterward plac'd in Heaven for a memorial of their great love to their Broth. The 7 Stars also are feigned to be the Daughters of Atlas, and are therefore called *Atlantiades*, & for their great love to their Father, were translated into Heaven. These are in that Constellation called Taurus, which was placed in Heaven, *&c.*	1	8 7	3 53
2	12	e	1 S. past Ep.		2	5	55
3	13	f	Hillary		3	4	56
4	14	g	Felix		4	2	58
5	15	a	Maurus		5	8 1	3 59
6	16	b	Marcellus		6	7 59	4 1
7	17	c	Anthony		7	58	4 2
8	18	d	Prisca		8	57	3
9	19	e	2 Art. Epiph.		9	55	5
10	20	f	Fab. Seb.		10	53	7
11	21	g	Agnes		11	52	8
12	22	a	Vincent		12	50	10
13	23	b	Emerent		13	49	11
14	24	c	Timothy		14	7 47	4 13
15	25	d	Conv. S. Paul		15	46	14
16	26	e	Septuages.		16	44	16
17	27	f	Chrysosto.		17	43	17
18	28	g	Car. Mag.		18	41	19
19	39	a	Samuel		19	39	21
20	30	b	Apollon.		20	38	22
21	31	c	Virgilius		21	36	24
22	Feb.	d	Bridg. Fast		22	34	26
23	2	e	Sexages.	Purification of Mary.	23	7 33	4 27
24	3	f	Blase		24	31	29
25	4	g	Veronica		25	29	31
26	5	a	Agatha		26	27	33
27	6	b	Dorothea		27	25	35
28	7	c	Zachary		28	23	37
29	8	d	Paul Bish.		29	21	39
30	9	e	Quinquag.		30	19	41
31	10	f	Scholastic?		31	7 17	43

February hath xxviii. days.

New Moon the 2 day, at 6 in the morning.
First quarter the 9 day, at 4 in the morning.
Full Moon the 17 day, 40 min. past 7 in the morning.
Last quarter the 25. day at two in the morning.

Mon. Day.	Week Da.	Festival & Saints days, with the ☽ s applicatio. to the noted fix'd stars.	The ☽ s place in zodiack at Noon	The ☽ s rising fro. the full to the change, & setting fr. the cha. to the F.			The mutu. Af. of the Plan. with the var. const. of air & cha. of wea.
1	D	☽ n. Swa. wing	aqua. 12	7	20		✱ ♄ ♂ cold &
2	e	Purif. Mary	aqua. 28	New ●			misty weath. at
3	f	☽ n. Marchab	pisc. 13	6	A 26		the beginning of
4	g	☽ n. Wh. Tail	pisc. 28	7	54		the month, with
5	a	☽ n. Head Aud.	aries 12	9	52		some Snow or
6	B	Quinquages.	aries 26	10	50		cold rain, after-
7	c	☽ n. S. foo. Aud	taur. 10	12	18	Moons Rising	wards good sea-
8	d	Sol in Pisces	taur. 23	☉ M.	18		sonable weather
9	e	Ash Wednesday	gem. 5	1	38		which 'tis hoped
10	f	♄ ☌ ☾ 11.	gem. 18	2	48		may continue
11	g	☿ ☥ 21	canc. 0	3	55		without much
12	a	Term ends	canc. 12	4	54		△ ♄ ☿ alterati-
13	B	Quadragesim.	canc. 24	5	40		on till towards
14	c	Valentine.	leo 5	6	13		the Full Moon;
15	d	♂ ☥ 20	leo 17	6	35		then 'tis feared
16	e	Ember week	leo 2,	6	55		we may have
17	f	♀ ♓ 15	virg. 11	Full ○			♂ ♑ ♂ windy
18	g	♀ ♒ 20	virg. 23	5	A 36		and rough weat.
19	a	☊ ☌ ♉ 25	libra. 6	7	45	Moons Setting.	✱ ♑ ☿ for some
20	B	♄ Sund. in Lent	libra. 18	9	0		✱ ♂ ♀ days, af-
21	c	☽ n. luc. Coron.	scorp. 1	10	22		terwards more
22	d	☽ n. Nor. Balau	scorp. 13	11	41		temperate for a
23	e	☽ n. le. hand. O.	scorp. 26	1	☾		□ ♃ ♀ while,
24	f	S. Matthias	sagit. 9	1	M. ☾		but yet some
25	g	☽ n. R. sh. Oph	sagit. 23	2	20		wind & storms
26	a	☽ n. Caud. Vult.	capri. 7	3	38		about the 26 day
27	B	☿ Sund. in Lent	capri. 21	4	34		aft. whic. we may
28	c	☽ n. Swan. win.	aqua. 6	5	16		have seasonable
							weather to the
							□ ♂ ♀ end.

FEBRUARY, 1687.

Saturn riseth between 8 and 9 at night, and is South between 2 and 3 in the morning. *Jupiter* and *Mars* rise near together between 2 and 3 in the morning. *Venus* is still combust. *Mercury* riseth before the Sun.

English Accompt.	Foraign Accompt.	Roman Kalendar.	Roman Saints days.	*Ferie, state & concept.*	*Poetical Stories of the Stars.*	M.D.	☉ ri.	☉ se.
1	11	g	Shrove-tu.		Castor and Pollux the	1	7 16	4 44
2	12	a	Ash-wedn.		Heads of Gemini, or the	2	14	46
3	13	b	Agabus		Twins, they are 2 bright	3	12	48
4	14	c	Valentine		Stars that come to the	4	10	50
5	15	d	Faustina		South at the beginning of	5	8	52
6	16	e	Quadrage.		this month, about half an	6	6	54
7	17	f	Constance		hour after 9 at night, and	7	4	56
8	18	g	Concord.		set not till after 6 in the	8	7 2	58
9	19	a	Sabine		mor. they are feigned to	9	7 0	5 0
10	20	b	Eucharist		be the Sons of Leda the	10	6 58	2
11	21	c	Esaias		Wife of *Tyndarus* K. of Oe-	11	56	4
12	22	d	Cath Peter		balia, with whom Jupiter	12	54	6
13	23	e	Reminiscer.		lay, having first turned	13	52	8
14	24	f	S. Matthias		himself into a Swan; the	14	49	11
15	25	g	Victor. M.		Swan was afterw. plac'd	15	47	13
16	26	a	Nestor		among the Stars in me-	16	45	15
17	27	b	Fortuna		morial of his purpose at-	17	43	17
18	28	c	Macar		tained under that form.	18	6 41	5 19
19	Marc.	d	David		Procyon, the lesser dog	19	39	21
20	2	e	Oculi		cometh to the Sou. with	20	37	23
21	3	f	Cunigur		Castor and Pollux, but	21	34	26
22	4	g	Adrianus		sets 2 hour & an half be-	22	32	28
23	5	a	Eusebius		before them: Some say	23	30	30
24	6	b	Frederick		that this was 1 of Orions	24	28	32
25	7	c	Felicitas		Dogs: others, that it was	25	26	34
26	8	d	Cyprian		Mœra the dog of Erigone	26	6 24	5 36
27	9	e	Lætare		the Daughter of Icarius,	27	22	38
28	10	f	Michaas		which pined away with	28	20	40
					grief at the death of Ica-			
					carius, *&c.*			

March hath xxxi. days.

● New Moon the 3 day, at 4 in the afternoon.
☽ Firſt quarter the 10 day, at 8 at night.
● Full Moon the 18 day, at midnight.
☾ Laſt Quarter the 26 day, at 10 in the morning.

1	d	☽ n. Sw. Breas.	aqua	20	5	46	Moons Setting.		miſty or driſſing
2	e	☽ n. Sw. Tail	piſces	6	6	6			Rain at the be-
3	f	☽ n. Scheat	piſces	21	New ●			—	□ ☉ ♓ ginning,
4	g	☽ n. Head And.	aries	6	7 A.	2			afterwar. windy
5	a	☽ n. firſt ✶ ♈	aries	20	8	36			& good ſeaſona.
6	B	Midlent Sunday	taur.	4	10	0			weath. is expe-
7	c	☽ n. cap. Med.	taur.	18	11	20			cted for ſome da.
8	d	☽ n. Aldebar.	gem.	1	12	38			and about this
9	e	Sol in aries	gem.	14	0 M.	38			time dark and
10	f	☽ n. R. ſh. Ar.	gem.	26	1	54			□ ♓ ☿ ♂ ♄ ♀
11	g	☽ n. Syrius	canc.	8	2	56			cloudy weather
12	a	☽ n. Procyon	canc.	20	3	46			with ſome moi-
13	B	☽ Sund. in Lent	leo	2	4	22			ſture; but about
14	c	♄ ♒ ☽	leo	14	4	48			the midſt of the
15	d	♃ 24 ♐	leo	26	5	8			♂ ☉ ☿ month
16	e	♂ ♍ 8	virg.	8	5	22			beginneth wind.
17	f	♀ ♈ 20	virg.	20	5	36			& ſtormy weath.
18	g	☿ ♈ 11	libr.	2	Full ●			—	□ ♂ ☿ & I fear
19	a	☊ ♉ 24	libr.	15	7 A.	0			☌ ♄ ☿ too wet
20	B	Palm Sunday	libra	27	8	18			□ ♄ ♂ for the
21	c	Benedict	ſcorp.	10	9	36			☌ ☉ ♄ ſeaſon,
22	d	☽ n. l. ha. Oph.	ſcorp.	23	10	54	Moons Riſing.		△ ♃ ♀ till after
23	e	☽ n. Cor. Scorp.	ſagit.	6	12	10			□ ☉ ♂ the 22 d.
24	f	☽ n. R. ſh. Op.	ſagit.	20	0 M.	10			then 'tis hoped
25	g	Annunti. B. M.	capr.	3	1	26			we may have
26	a	☽ n. Can. Vult.	capr.	17	2	36			□ ♃ ♀ ſeaſonab.
27	B	Eaſter day	aqua.	1	3	30			weather, which
28	c	☽ n. le ſhoul. ♒	aqua.	15	4	0			probably may
29	d	☽ n. Sw. Tail	piſce.	0	4	23			continue without
30	e	☽ n. Marchab.	piſce.	15	4	43			much alteration,
31	f	☽ n. Whails Ta.	aries	0	5	0			only ſome driſl
									♂ ♀ ☿ rain.

MARCH, 1687.

Saturn is South about midnight.
Jupiter riseth between 1 and 2 in the morning.
Mars riseth between 2 and 3 in the morning.
Venus toward the end of the month emergeth from the Sun-beams, and sets after the Sun.
Mercury at the beginning is combust, but at the end he is with *Venus*.

English Accom.	Rom. Accom.	Rom. Kalendar.	Rom. Sts. Days.							
1	11	g	Cunibert	Basiliscus, or lions heart,	1	6	17	5	43
2	12	a	Gregorius	at the beginning of this	2	6	15	5	45
3	13	b	Ernestus	month cometh to the	3	6	13	5	47
4	14	c	Eutychus	South about 10 at night,	4	6	11		49
5	15	d	Longine	& sets a little after 5 in	5		8		52
6	16	e	Judica	the morning; it is a very	6		6		54
7	17	f	Gertrude	bright Star in the breast	7		4		56
8	18	g	Gabriel	of the Lion: This Con-	8		2		58
9	19	a	Joseph	stellation consisteth of	9	6	0	6	0
10	20	b	Rupert	27 Stars, & is feign'd to	10	5	58	6	2
11	21	c	Benedict	be the Lion which Her-	11	5	56		4
12	22	d	Paulinus	cules overcame in the	12		54		6
13	23	e	Palm Sun.	wood of Nemæa, & was	13		52		8
14	24	f	Quirin. Fast	placed in Heaven in re-	14		50		10
15	25	g	An. B. V. M.	membrance of so nota-	15		48		12
16	26	a	Castulus	ble a deed.	16		46		14
17	27	b	Jo. Erem.	The Virgins Spike is a	17		44		16
18	28	c	Gideon	very bright Star in the	18		42		18
19	29	d	Eustace	hand of Virgo; toward	19	5	40	6	20
20	30	e	Paschа	the end of the month it	20		38		22
21	31	f	Balbina	is South at midnight, &	21		36		24
22	Apr.		Theodore	sets a little after 5 in the	22		34		26
23	2	a	Mary Egyp.	morning. This Constel-	23		32		28
24	3	b	Uspian	lation consisteth of 26	24		30		30
25	4	c	Ambrose	Stars, & is feigned to be	25		28		32
26	5	d	Vincent	Justice, which did some-	26	5	26		34
27	6	e	Quasimod.	time live upon the earth,	27		24	6	36
28	7	f	Coelestin	but for the wickedness	28		22		38
29	8	g	Dionysius	thereof did forsake it, &	29		20		40
30	9	a	Albinus	chose this place for her	30		18		42
31	10	b	Ezekiel	seat in Heaven.	31	5	16		44

April hath xxx. days.

New Moon the 2 day, at 2 in the morning.
First quarter the 9 day, at 2 in the afternoon.
Full Moon the 17 day, 10 m. past 2 in the afternoon.
Last quarter the 24 day, at 4 in the aftern.

1	V	D n. Cap. And.	aries	14	5	13		Seasonable wea-
2	a	D n. Gird. And.	aries	29	New	●		ther with some
3	B	Low Sunday	taur.	12	9	A. 2		△ ☉ ♆ brisk
4	c	D n. 7 Stars	taur.	26	10	26		gales of wind at
5	D	D n. Aldebar	gem.	9	11	44		the beginning of
6	e	D n. R.sh. Aurig.	gem.	22	12	52		the month, & in
7	f	D n. Syrius	canc.	4	0	M. 52	Moons Rising.	general very
8	g	D n. Procyon	canc.	16	1	52		good & pleasant
9	a	D n. Nor. Assel.	canc	28	2	36		weather is expe-
10	B	2. past Easter	leo	10	3	0		cted, with now &
11	c	D n. Cor leonis	leo	22	3	22		then some show.
12	D	♄ ♎ 7	virgo	4	3	40		☌ ☿ ☿ of rain,
13	e	Term begins	virgo	16	3	52		and probably
14	f	☿ ♐ 23	virg.	28	4	4		no great Altera-
15	g	☌ ♍ 5	libra	11	4	17		△ ♈ ☌ tion till
16	a	☿ ☌ 27	libra.	2	4	30		about the Full
17	B	3 past Easter	scorp.	6	Full	●		Moon, which
18	c	☿ ☌ 24	scorp.	19	9	A. 0		may produce
19	D	☊ ☌ 22	sagit	3	10	14		some brisk win.
20	e	☽ n. Cap. Oph.	sagit.	16	11	26		& also showrs of
21	f	D n. Lyra	capri.	6	12	38	Moons Setting.	rain or hail, & for
22	g	D n. Caud. Vult.	capri.	14	0	M. 38		the most part
23	a	S. George	capr.	28	1	34		good seasonable
24	B	4 past Easter	aqua.	12	2	10		△ ♄ ☿ weath.
25	c	St. Mark	aqua.	26	2	34		with some dris-
26	D	☽ n Marc. peg.	pisce.	10	2	54		ling about the 25
27	e	D n. Scheat. Peg	pisce.	24	3	12		day, & probably
28	f	D n. Cap. Adro.	aries	9	3	28		at the end of the
29	g	D n. prin. ✶ Ari.	aries	23	3	42		month windy
30	a	D n. Son. foo. An	taur.	7	3	55		☌ ☉ ☿ weath.

APRIL, 1687.

Saturn is South about 10 at night. *Jupiter* riseth between 11 and 12 at night, and is South between 3 and 4 in the morning. *Mars* riseth between 1 and 2 in the morning. *Venus* and *Mercury* are near together, and set a little after the Sun.

| Engl. Accom. | Foraig. Accom. | Rom. Kalendar. | Rom. St. days. | | |

May hath xxxi. days.

● New Moon the 1 day, 50 min. past noon.
☽ First quarter the 9 day, at 7 in the morning.
● Full moon the 17 day, 45 m. past 1 in the morning.
☾ Last quarter the 23 day, at 10 at night.
● New Moon the 31 day, 30 m. before 1 in the morn.

1	B	S. Phil. & Jacob	taur. 21	New ●		—		*Sun Eclipsed.*
2	c	☽ n. Aldebar	gem. 4	9	A. 28			Windy, with
3	d	☽ n. Alhaiot	gem. 17	10	32			showers at the
4	e	☽ n. Syrius	cance. 9	11	30			beginning of the
5	f	Ascentio Dom.	cance. 17	12	22		Moons Setting.	month, afterwar.
6	g	☽ n. Procyon	canc. 24	☉	M. 22			♂ ☿ ♀ △ ♄ ♂
7	a	☽ n. Asellus	leo 6	1	10			an increase of
8	B	☉ past Easter	leo 18	1	32			heat is expected,
9	c	Term ends	virg. 0	1	46			& great proba-
10	d	♄ ♎ 6	virg. 12	2	0			bility of good
11	e	Sun in Gem.	virg. 24	2	15			seasonable and
12	f	☿ ♐ 21	libra 6	2	29			pleasant weath.
13	g	♂ ♒ 9	libra 19	2	44			for the most part
14	a	♀ ♉ 1	scorp. 2	3	0			of these days,
15	B	Whitsunday	scorp. 15	3	14			with some brisk
16	c	☿ ♉ 15	scor. 28	3	28			✶ ☉ ♄ gales of
17	d	☊ ♉ 21	sagit. 12	Full	●	—		wind, and also
18	e	*Ember week.*	sagit. 26	10	A. 30			□ ♄ ♀ showers
19	f	☽ n. Caud. Vult.	capr. 10	11	30			about the Full
20	g	☽ n. luc. ✶ vult.	capri. 24	12	14			M. with some
21	a	☽ n. Sw. wing	aqua. 9	☉	M. 14		Moons Rising.	mists, or drisling
22	B	Trinity Sunday	aqua. 23	0	42			rain about the
23	c	☽ n. Marchab.	pisces 7	1	2			22 d. or else no
24	d	☽ n. Scheat	pisces 21	1	22			great alterat. till
25	e	☽ n. Cap. And.	aries 5	1	40			△ ☉ ♂ towards
26	f	☽ n. Pri. ✶ Ar.	aries 19	1	58			the end of the
27	g	Term begins	taur. 3	2	14			month, which
28	a	☽ n. Cap. Med.	taur. 16	2	29			is expected to
29	B	K. Charl. II. N. B.	taur. 29	2	44			♂ ☉ ♍ bring
30	c	☽ n. Alhaiot	gem. 12	3	0			windy weather.
31	d	☽ n. R. sh. Aur.	gem. 25	New ●				

MAY, 1687.

Saturn *sets between* 2 *and* 3 *in the Morning.*
Jupiter *is South about* 1 *in the Morning.*
Mars *riseth about* 1 *in the Morning.*
Venus *sets about* 10 *at night.*
Mercury *is hid under the Sun beams.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints &c.								
1	11	☉	Exaudi	*Arcturus* is a great red	1	4	19	7	41
2	12	f	Gordian	Star, coming to the South	2		17		43
3	13	g	Servatius	at the beginning of this	3		15		45
4	14	a	Fortuna	month between 10 and 11	4		14		46
5	15	b	Sophia	at night, he is placed be-	5		12		48
6	16	c	Peregrine	tween the legs of *Arctophi-*	6		10		50
7	17	d	Jodocus	*lax* or *Bootes*, and it is	7	4	9	7	51
8	18	☉	Pentecost	thus feigned of him: *Ica-*	8		8		52
9	19	f	Sarah	*rius* the Son of *Oebalus*,	9		6		54
10	20	g	Bernard.	having received a flagon of	10		5		55
11	21	a	Prudent.	wine of *Bacchus*, he travel-	11		3		57
12	22	b	Helena	led therewith into the	12		2		58
13	23	c	Desider.	Territories of *Athens*,	13	4	1		59
14	24	d	Esther	where some Shepherds	14	4	0	8	0
15	25	☉	Trinity S.	taking a Cup too much,	15	3	59	8	1
16	26	f	Edward	finding their Brains intoxi-	16		58		2
17	27	g	Beda	cated, and thinking that he	17		57		3
18	28	a	Wilhelm	had poisoned them, there-	18		55		5
19	29	b	Maximia	upon killed him; his	19		54		6
20	30	c	Wigand	Daughter *Erigone* in a pas-	20		53		7
21	31	d	Petronell	sion made away her self;	21		52		8
22			ne 1 p. Trin	her little Dog *Mera* pined	22		51		9
23	2	f	Marcellus	to death. In the close of	23		50		10
24	3	g	Erasmus	all *Jupiter* turned *Mera*	24		49		11
25	4	a	Quirinus	into the Dog star, *Eri-*	25	3	48	8	12
26	5	b	Boniface	*gone* into the sign called	26		47		13
27	6	c	Artemid.	*Virgo*, and *Icarius* into	27		46		14
28	7	d	Paul Ep.	*Arcturus*, and placed	28		45		15
29	8	☉	2 p. Trin.	him between the legs of	29		43		15
30	9	f	Barnim.	*Bootes*.	30		44		16
31	10	g	Onufrius		31	3	44	8	16

☽ First Quarter the 8 day, at 1 in the morning.
● Full Moon the 15 day, at 15 min. past 10 in the morning.
☾ Last Quarter the 22 day, at 3 in the morning.
● New Moon the 29 day, 20 min. past 2 in the afternoon.

1	e	☽ n. Syrius	canc. 8	10	20			
2	f	☽ n. Procyon	canc. 20	11	0			
3	g	☽ n. Asellus	leo 2	11	30			Frequent shower
4	a	☽ n. Cor. Hydr.	leo 14	11	48			of Rain are expected
5	25	2 past Trinity.	leo 26	12	4			at the beginning of
6	c	☿ ☌ ♎ 6.	virgo 8	0	M 4		Moons Setting.	the Month, then
7	d	♃ ☍ ♂ 18 R.	virgo 20	0	21			✶ ♃ ♂ 'tis hoped
8	e	♄ ♒ 18	libr. 2	0	38			△ ♄ ☿ we may have
9	f	♀ ♌ 2	libr. 14	0	56			good seasonable wea-
10	g	☿ ♊ 9	libr. 27	1	15			ther, with some in-
11	a	St. Barnabas.	scorp. 9	1	35			crease of heat; but
12	25	3 past Trinity.	scorp. 23	1	54			from ✶ ♄ ♀ the 12
13	c	☊ ♂ 19	sagit. 6	2	13			day till after the full
14	d	☽ n. R. sh. Ophi.	sagit 20	2	32			☽ ♃ ☿ Moon
15	e	Term ends.	capr. 5	Full ●				△ ♃ ☿ suf-
16	f	☽ n. Caud. Vult.	capr. 19	10	0			ficently windy
17	g	☽ n. h. wl. Sw.	aqua. 4	10	36			☐ ☉ ♄ and stormy
18	a	☽ n. le. sh. ♒	aqua. 19	11	0		I	(if I be not mistaken)
19	25	4 past Trinity.	pisces 4	11	19			afterwards a more
20	c	☽ n. Marchab.	pisces 18	11	35			temperate △ ♃ ♀
21	d	☽ n. Caud. Ceti.	aries 2	11	51			season is expected,
22	e	☽ n. Cap. Andr.	aries 16	12	6		Moons Rising.	☐ ♄ ☿ yet not
23	f	☽ n. cing. Andr.	aries 29	0	M 6			without some ♂ ☌ ♀
24	g	St. Jo. Baptist	taur. 13	0	22			Showers of Rain, and
25	a	☽ n. 7 Stars.	taur. 26	0	40			also some wind
26	25	5 past Trinity.	gem. 9	1	0			♂ ☉ ☿ toward the
27	c	☽ n. Cap. Orion.	gem. 21	1	24			he end of the
28	d	☽ n. Syrius	canc. 4	2	0			month.
29	e	St. Pet. & Paul.	canc. 16	New ●				
30	f	☽ n. Asellus	canc. 29	9	30			

JUNE, 1687.

Saturn *sets about mid-night.*
Jupiter *is South about* 11 *at night.*
Mars *riseth about* 11 *at night.*
Venus *sets about* 10 *at night.*
Mercury *at the beginning riseth before the Sun, but at the end he is Combust.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	a	St. Barnab.	*Corona Borea*, or the	1	3	44	8	16
2	12	b	Blandin.	Northern Crown, this Con-	2		43		17
3	13	c	Cyrillus	stellation consisteth of 8	3		43		17
4	14	d	Valerius	Stars, and is now South a-	4		42		18
5	15	e	3 p. Trin.	bout 10 at night, it is an	5		42		18
6	16	f	Rulandus	hour and half after *Arctu-*	6		42		18
7	17		Volcman.	*rus*; these Stars stand round,	7		42		18
8	18	a	Homer	and appear like a Garland.	8		41		19
9	19	b	Gervasius	This is said to be the Gar-	9		41		19
10	20	c	Regina	land that *Venus* gave to *A-*	10		41		19
11	21	d	Alban	*riadne* when she was mar-	11	3	41	8	19
12	22	e	4 p. Trin.	ried to *Bacchus* in the Isle	12		41		19
13	23	f	Basilius	of *Naxus*, after that *Theseus*	13		41		19
14	24	g	St. Jo. Bap.	had left her: which Garland	14		41		19
15	25	a	Elogius	*Bacchus* was pleased to place	15		42		18
16	26	b	Jeremias	in the Heavens, as a token of	16		42		18
17	27	c	7 Dorm.	his love.	17		42		18
18	28	d	Leo. *Fast*	*Lyra* the Harp, contain-	18	3	42	8	18
19	29	e	St. Peter	eth 10 Stars, the brightest	19		43		17
20	30	f	Conv. Paul	of them is now South about	20		43		17
21	July.		Theobald	midnight. This Harp *Mer-*	21		44		16
22	2	a	Visit. V.M.	*cury* gave to *Orpheus* the Son	22		44		16
23	3	b	Cornelius	of *Cassiopea*; it was of such	23		44		16
24	4	c	Ulricus	excellent sound that Trees,	24		45		15
25	5	d	Anselm	Stones, Fowls, and Beasts	25	3	45	8	15
26	6	e	6 p. Trin.	are said to follow the	26		46		14
27	7	f	Demetrius	sound thereof. After such	27		47		13
28	8	g	Chillan.	time as *Orpheus* was slain,	28		48		12
29	9	a	Cyrillus	by the Women of *Thrace*,	29		49		11
30	10	b	7 Brethren	the	30		50		10

July hath xxxi days.

☽ First Quarter the 7 day, at 4 in the afternoon.
● Full Moon the 14 day, at 6 at night.
☾ Last Quarter the 21 day, at 9 in the morning.
● New Moon the 29 day, 30 minutes past 4 in the morning.

1	g	☽ n. Cor. Hydræ	leo	11	9	A	50	
2	a	☽ n. Basiliscus	leo	23	10		7	
3	b	6 past Trinity	virg.	5	10		20	Moons Setting.
4	c	☽ n. Cau Urs. m.	virg.	16	10		32	
5	d	☽ n. Vindemiat.	virg.	28	10		40	
6	e	☽ n. sin. hu. Boo.	libr.	10	10		52	
7	f	☽ n. spica Virg.	libr.	23	11		4	
8	g	☽ n. Lanx. Austr.	scorp.	5	11		18	
9	a	☽ n. Luc. c. Serp.	scorp.	18	11		38	
10	b	7 past Trinity	sagit.	1	12		10	
11	c	♄ ♎ 7	sagit.	14	☌	M	10	
12	d	Sol in Leo.	sagit.	28	☌		48	
13	e	♃ ♐ 14 Stat.	capr.	13	1		38	
14	f	♂ ♒ 19 R.	capr.	28	Full		●	
15	g	Swithin	aqua.	13	9	A	2	
16	a	☿ ♍ 15	aqua.	28	9		20	
17	b	8 past Trinity	pisces	13	9		38	
18	c	☿ ♌ 25	pisces	28	9		52	Moons Rising.
19	d	♌ ♉ 18	aries	12	10		4	
20	e	☽ n. Cing. Andr.	aries	26	10		20	
21	f	☽ n. Austr. p. An.	taur.	10	10		38	
22	g	☽ n. Cap. Med.	taur.	23	11		0	
23	a	☽ n. Aldebar.	gem.	6	11		24	
24	b	9 past Trinity	gem.	18	11		52	
25	c	St. James.	canc.	1	12		43	
26	d	☽ n. Syrim.	canc.	13	☌	M	43	
27	e	☽ n. Procyon.	canc.	25	1		40	
28	f	☽ n. Asellus	leo	7	2		46	
29	g	☽ n. Cor Hydræ	leo	19	New		●	
30	a	☽ n. R. C. Urs. m.	virgo	1	8		29	
31	b	10 past Trinity	virgo	13	8		40	

Hot and sultry weather at the beginning of the month, and 'tis hoped indifferent good Hay weather ✶ ♄ ☿ these days. But about the ninth or tenth day, some showers are △ ♃ ♀ expected. Also about the full ☌ ♂ ☿ Moon □ ♃ ♀ great variety of weather, probably some Thunder showers: which being past, ✶ ☉ ♄ we may expect seasonable and good weather, with some brisk cooling gales of wind. But toward the end △ ☉ ♃ of the month an increase of ☌ ☉ ♂ heat is ex- □ ♃ ☿ pected.

Saturn *sets about* 10 *at Night.*
Jupiter *sets a little after midnight.*
Mars *South a little after midnight.*
Venus *sets about* 10 *at night.*
Mercury *sets a little after the Sun.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	c	Pius	the Muſes by the good leave	1	3	51	8	9
2	12	d	Henricus	of *Jupiter*, and at the re-	2		52		8
3	13	e	7 p. Trin.	queſt of *Apollo*, placed this	3		53		7
4	14	f	Bonavent.	Harp in Heaven.	4		54		6
5	15	g	Swithin		5		55		5
6	16	a	Hyllarin	*Aquila*, the Eagle, it is	6		56		4
7	17	b	Alexius	alſo called *Vultur volans*,	7		58		2
8	18	c	Materaus	the flying Gripe: it hath	8		59		1
9	19	d	Ruffina	in it 9 Stars; the brighteſt	9	4	0	8	0
10	20	e	8 p. Trin.	of them is now South be-	10		1	7	59
11	21	f	Daniel	tween 10 and 11 at night.	11		3		57
12	22	g	Mary Mag.	Here the Poets feign that	12		5		55
13	23	a	Apollin	*Jupiter* transforming him-	13		6		54
14	24	b	Chriſtina	ſelf into the form of an	14		7		53
15	25	c	St. James.	Eagle, took *Ganimedes*	15		9		51
16	26	d	Anna	the Trojan Boy, whom he	16		10		50
17	27	e	9 p. Trin.	greatly loved, up into Hea-	17		11		49
18	28	f	Panthal.	ven; and therefore in ſign	18		13		47
19	29	g	Beatrice	thereof (becauſe by that	19		14		46
20	30	a	Abdon	means he performed his	20	4	16	7	44
21	31	b	German	purpoſe) he placed the	21		17		43
22	Aug.		Lammas	figure of the Eagle in	22		19		41
23	2	d	Moſes	Heaven. *Ganimedes* was	23		20		40
24	3	e	10 p. Trin.	afterwards admitted to be	24		22		38
25	4	f	Ariſtarch.	*Jupiters* Cup-bearer in the	25		24		36
26	5	g	Oſwaldus	room of *Hebe*, who by an	26		25		35
27	6	a	Sixtus	unfortunate ſlip, diſcover-	27		27		33
28	7	b	Donatus	ing all, was therefore put	28		29		31
29	8	c	Ladiſlaus	out of Office.	29		31		29
30	9	d	Roman.		30	4	33	7	27
31	10	e	11 p. Trin.		31		35		25

Auguſt hath xxxi. days.

☽ First Quarter the 6 day, at 7 in the morning.
○ Full Moon the 13 day, 30 min. paſt 1 the morning.
☾ Laſt Quarter the 19 day, at 8 at night.
● New Moon the 27 day, at 8 at night.

1	c	Lammas day.	virg.	25	8	A	52	
2	d	☽ n. ſin. h. Boo.	libr.	7	9		4	
3	e	☽ n. ſpic. Virg.	libr.	19	9		16	
4	f	☽ n. luc. Coron.	ſcorp.	1	9		28	
5	g	☽ n. lanx. Borea	ſcorp.	13	9		44	
6	a	☽ n. ſin. M. Oph.	ſcorp.	26	10		6	
7	B	11 paſt Trinity	ſagit.	9	10		33	
8	c	☽ n. lu. Cap. dra.	ſagit.	23	11		13	
9	d	☽ n. luc. Lyra.	capr.	7	12		19	
10	e	☽ n. Luc. Vult.	capr.	21	0	M	19	
11	f	♄ ♎ 10	aqua.	6	1		45	
12	g	♃ ☌ ♂ 14 Di.	aqua.	21	3		6	
13	a	Sol in Virgo.	piſc.	7	Full		●	
14	B	12 paſt Trinity	piſc.	22	8	A	0	
15	c	☌ ♒ 11 St.	aries	7	8		13	
16	d	♀ ♎ 18	aries	22	8		29	
17	e	☿ ♍ 19	taur.	6	8		49	
18	f	☊ ☌ ♂ 16	taur.	19	9		10	
19	g	☽ n. Aldebar.	gem.	2	9		34	
20	a	☽ n. Alhinot	gem.	15	10		2	
21	B	13 paſt Trinity.	gem.	28	10		38	
22	c	☽ n. Syrius	canc.	10	11		42	
23	d	☽ Procyon	canc.	22	12		48	
24	e	St. Bartholom.	leo	4	0	M	48	
25	f	☽ n. Cor. Hydr.	leo	16	1		54	
26	g	☽ n. Baſiliſcus	leo	28	3		10	
27	a	☽ n. Ca. Urſ. ma.	virg.	10	New		●	
28	B	14 paſt Trinity	virg.	22	7	A	10	
29	c	☽ n. Vindemiat.	libra	4	7		22	
30	d	☽ n. Arcturus	libr.	16	7		34	
31	e	☽ n. luc. Coron.	libr.	28	7		48	

Moon Setting.

Moon Riſing.

Seaſonable and good Weather (if I be not * ♃ ♂ miſtaken) till about the 6 day, then expect ſome ♂ ♄ ♀ ſhowry and driſſling weather, and I △ ♂ ♀ doubt ſomewhat ſlack * ♃ ♀ Harveſt Weather till after the full Moon; then 'tis hoped that we may have very ſeaſonable and good weather for the greateſt part of the Month, and probably no △ ♄ ♂ greater alteration than ſome miſty and driſſling Mornings; and otherwhiles ſome briſk gales of Wind, to the □ ☉ ♃ end of the Month.

AUGUST, 1687.

Saturn *and* Venus *set near together betwixt* 8 *and* 9 *at night.*
Jupiter *sets between* 10 *and* 11 *at night.*
Mars *sets between* 3 *and* 4 *in the morning.*
Mercury *followeth the Sun, and toward the end is hid being under the Sun-beams.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saint. da.						
1	11	f	Titus	*Marchab* is a Star of the	1	4	37	♑ 23
2	12	g	Clara	second Magnitude in that	2		39	21
3	13	a	Hyppolit	Constellation called *Equus*	3		41	19
4	14	b	Bertram	*Alatus*, the winged Horse,	4		42	18
5	15	c	Assump. M	or *Pegasus*; It is South be-	5		44	16
6	16	d	Rochus	tween twelve and one of	6		46	14
7	17	e	12 p. Trin.	the clock in the night.	7		48	12
8	18	f	Helena	This Horse was bred of the	8	4	50	♑ 10
9	19	g	Sebaldus.	blood of *Medusa* after that	9		52	8
10	20	a	Bernard	*Perseus* had cut off her	10		54	6
11	21	b	Athanas.	head. He was taken and	11		56	4
12	22	c	Zimphor	tamed by *Bellerophon* whilst	12		58	2
13	23	d	Zachæus	he drank of the River *Pi-*	13	5	0	♑ 0
14	24	e	St. Bart.	*rene* by *Corenth*, and was u-	14	5	1	6 59
15	25	f	Ludovicus	sed by him in the Conquest	15		3	57
16	26	g	Irenæus.	of *Chimera*: After which	16		5	55
17	27	a	Gebhard	exploit *Bellerophon* being	17		7	53
18	28	b	Augustine	weary of earthly Affairs,	18		8	52
19	29	c	Decol. J. B.	endeavoured to fly up to	19		10	50
20	30	d	Felix P.	Heaven, but being amazed	20		12	48
21	31	e	14 p. Trin.	by looking down in his	21		14	46
22	Sept.		Ægidius	flight, he fell from his	22		16	44
23	2	g	Rachel	Horse *Pegasus* notwith	23	5	18	6 42
24	3	a	Euphem	standing continued his	24		20	40
25	4	b	Theodore	Course, and (as they feign)	25		22	38
26	5	c	Zachary	entred into Heaven, and	26		24	36
27	6	d	Magnus	there obtained a place a-	27		26	34
28	7	e	15 p. Trin.	mong the other Constella-	28		28	32
29	8	f	Nat. V. M.	tions.	29		31	29
30	9	g	Kunigur		30		33	27
31	10	a	Sosthenes		31	5	35	6 25

☽ First Quarter the 4 day, at 6 at night.
○ Full Moon the 11 day, 15 min. past 9 in the morning.
☾ Last Quarter the 18 day, at 9 in the morning.
● New Moon the 26 day, at 1 in the afternoon.

1	t	☽ n. Lanx Aur.	scor.	10	8	A	6		Expect windy and
2	g	☽ n. Dex.hu.He.	scor.	23	8		26		stormy weather
3	a	☽ n.sin.gc.Oph.	sagit.	5	8		48	Moons Setting	☌ ☉ ☿ at the be-
4	♍	15 past Trinity.	sagit.	18	9		16		ginning of the
5	c	♄ ♎ 12	capr.	2	10		10		month, afterwards
6	d	♃ ♐ 16	capr.	16	11		20		more temperate, with
7	e	♂ ♒ 11	aqua.	0	12		36		some dris- □ ☌ ♀
8	f	Nat. V. M.	aqua.	14	0	M	36		ling Rain, □ ♃ ☿
9	g	♀ ♏ 12	aqua.	29	2		10		about the *9th* day,
10	a	☿ ♍ 16	pisces	15	3		50		also misty mornings
11	♍	16 past Trinity.	aries	0	Full		●		yet for these days
12	c	♑ ♉ 15	aries	15	6	A	45		✶ ♀ ☿ seasonable
13	d	Sol in Libra	taur.	0	7		0		weather; and about
14	e	Ember Week	taur.	15	7		20		this time some cold
15	f	☽ n. Aldebar.	taur.	28	7		42	Moons Rising.	and brisk □ ♃ ♀
16	g	☽ n. Alhaioh	gem.	11	8		10		winds, and probably
17	a	☽ n.Dex.h.Aur.	gem.	24	8		50		some few showers,
18	♍	17 past Trinity.	canc.	7	9		43		else no considerable
19	c	☽ n. Procyon	canc.	19	10		43		alteration till △ ♄ ☌
20	d	☽ n. Asellus	leo	1	11		48		towards the end of
21	e	St. Matthew	leo	13	1		0		the month, which (if
22	f	☽ n. Basilisc.	leo	25	1	M	0		I have not guessed
23	g	☽ n.Cau.Urs.M.	virg.	7	2		14		amiss) produceth
24	a	☽ n. Cau. leon.	virg.	19	3		27		cold, ☌ ☉ ♄
25	♍	18 past Trinity	libr.	1	4		40		windy, △ ☉ ☌
26	c	☽ n.Virg.Spic.	libr.	13	New		●	☽'s Setting.	and wet weather.
27	d	☽ n. Arcturus	libr.	26	6		0		
28	e	☽ n. luc.Coron.	scorp.	7	6		18		
29	f	St. Michael	scor.	20	6		36		
30	g	☽ n. si.Gen.Op.	sagit.	2	6		56		

Saturn *toward the end goeth to Combustion.*
Jupiter *sets between* 8 *and* 9 *at night.*
Mars *is South about* 9 *at night.*
Venus *sets about* 8 *at night.*
Mercury *toward the end riseth before the Sun.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saint. da.							
1	11	b	Theobald		1	5	37	6	23
2	12	c	Tobias		2		39		21
3	13	d	Amatus	*Orion* is a very great	3		41		19
4	14	e	16 p. Trin.	and remarkable Constella-	4		43		17
5	15	f	Nicodem.	tion, consisting of eight	5		45		15
6	16	g	Euphem.	and thirty Stars: There	6		47		13
7	17	a	Lambert	are three very bright Stars	7		49		11
8	18	b	Ferrialus	in his Girdle, which we	8		51		9
9	19	c	Januarius	commonly call, our Ladies	9		53		7
10	20	d	Fausti. Fast.	Yard, or Wand; they	10	5	55	6	5
11	21	e	S. Matthew	now rise between eleven	11		57		7
12	22	f	Maurice	and twelve at night. Of	12		59		1
13	23	g	Joel	this Constellation the Po-	13	6	1	5	59
14	24	a	Rupert	ets feign thus: *Jupiter*,	14		3		57
15	25	b	Cleophas	*Mercury*, and *Neptune*, came	15		5		55
16	26	c	Cyprianus	to lodge one night at	16		7		53
17	27	d	Judith	poor *Hyreus* his House,	17		9		51
18	28	e	18 p. Trin.	who having but one Ox,	18		11		49
19	29	f	S. Michael.	killed him for their better	19		13		47
20	30	g	Jerome	Entertainment; they to	20		15		45
21			Remigius	requite him, bad him ask	21		17		43
22	2	b	Leodegar	what he would, and he	22	6	19	5	41
23	3	c	Simplic.	should have it: he said	23		21		39
24	4	d	Francisc.	that he would fain have	24		23		37
25	5	e	19 p. Trin.	a Child, but he would	25		25		35
26	6	f	Aurelia	not marry; whereupon	26		27		33
27	7	g	Spes	they called for the Hide	27		29		31
28	8	a	Pelagia	of	28		32		28
29	9	b	Nicasius		29	6	34	5	26
30	10	c	Gideon		30		36		24

October hath xxxi. days.

☽ First Quarter the 4 day, at 3 in the morning.
● Full Moon the 10 day, 40 min. past 6 at night.
☾ Last Quarter the 18 day, at 4 in the morning.
● New Moon the 26 day, at 6 in the morning.

1	d	☽ n. Cap. Oph.	sagit.	15	7	A	28	Moons Setting.	
2	♋	19 past Trinity	sagit.	29	8		12		
3	c	☽ n. Caud. vult	capr.	12	9		8		Cold winds and
4	d	☽ n luc. vult.	capr.	26	10		26		cloudy weather
5	e	☽ n. sup. Ma Cy.	aqua.	10	11		52		✶ ☉ ♃ these days,
6	f	☽ n. Os Pegasi.	aqua.	24	1		23		and about the 6 day
7	g	☽ n. Marchab.	pisces	5	1	M	23		some cold drisling
8	a	☽ n. Scheat. P.	pisces	24	2		56		Rain is ☌ ♄ ☿ ex-
9	♋	20 past Trinity	aries	9	4		32		pected; also about
10	c	☽ n. cing. Andr.	aries	23	Full		●		this △ ☌ ☿ time
11	d	☽ n. Aus. pes An.	taur.	8	5	A	28		wind ✶ ♃ ♉
12	e	☽ n Pleiades	taur.	22	5		50	Moons Rising.	and great ✶ ♃ ☌
13	f	Sol in Scorp.	gem.	6	6		16		variety of weather.
14	g	☽ n. seq. hu. Or.	gem.	21	6		47		But after the Full
15	a	♄ ♎ 17	canc.	3	7		28		Moon we hope it
16	♋	21 past Trinity.	canc.	16	8		25		may be a more tem-
17	c	♃ ♐ 22	canc.	28	9		40		perate and seasonable
18	d	St. Luke	leo	10	10		54		☌ ☉ ☿ time. And
19	e	☌ ♏ 25	leo	22	12		8		about the last quarter
20	f	♀ ♐ 3 R.	virg.	3	☉	M	8		a misty and foggy
21	g	♀ ♍ 10	virg.	15	1		20		season for some days:
22	a	♑ ♉ 13	virg.	27	2		30		But about the New
23	♋	22 past Trinity	libra	9	3		42		Moon begins windy
24	c	Term begins	libra	21	4		56		stormy weather, and
25	d	Crispin	scorp.	4	6		12		perhaps some snow,
26	e	☽ n. lanx. Borea	scor.	16	New		●		and right winterly
27	f	☽ n. Antares	scorp.	29	5	A	4	Sts Setting.	weather □ ☌ ♀ to
28	g	St. Sim. & Jude	sagit.	12	5		28		the end of the
29	a	☽ n. hi. cap. Drac.	sagit.	26	6		8		Month.
30	♋	23 past Trinity.	capr.	9	7		4		
31	c	☽ n. luc. Vult.	capr.	23	8		16		

OCTOBER, 1687.

Saturn *toward the end is free from Cumbustion.*
Jupiter *followeth the Sun, and sets between seven and eight at night.* (12 and 1.
Mars *is south about 8 at night, and sets between*
Venus *followeth the Sun.*
Mercury *is hidden under the Sun-beams.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	d	Burchard		1	6	37	5	23
2	12	e	20 p. Trin.		2		39		21
3	13	f	Telemach	of the Ox that was slain,	3		41		19
4	14	g	Calixtus	and pissed into it, all three	4		43		17
5	15	a	Hedwig	together, and bad *Hyrieus*	5		45		15
6	16	b	Gallus	cover it in the Earth for	6		47		13
7	17	c	Florent.	nine months, which he	7		49		11
8	18	d	St. Luke	did, and found therein a	8		51		9
9	19	e	21 p. Trin.	Man-child, whom he called	9		53		7
10	20	f	Wendelin	*Orion*; he became a great	10	6	55	5	5
11	21	g	Ursula	Hunter, and was greatly	11		58		2
12	22	a	Cordula	beloved of *Diana*: he usu-	12	7	0	5	0
13	23	b	Severine	ally boasted that he was	13	7	2	4	58
14	24	c	Salome	able to overcome what	14		4		56
15	25	d	Crispine	Beast soever was bred upon	15		6		54
16	26	e	22 p. Trin.	the Earth. At last the	16		8		52
17	27	f	Victoria	Earth brought forth the	17		10		50
18	28	a	St. Si. & Jud	Scorpion, which stung him	18		12		48
19	29	b	Narcissus	to death. *Jupiter* there-	19		14		46
20	30	g	Absalom	upon (at the request of the	20	7	16		44
21	31	c	Wolfgang	Earth) translated both the	21		18		42
22	Nov.		All Saints	Scorpion and *Orion* into	22		19	4	41
23	2	e	23 p. Trin.	Heaven; to make it a les-	23		21		39
24	3	f	Theophil.	son for ever, for mortal	24		23		37
25	4	g	Modestius	men, not to trust too much	25		25		35
26	5	a	Petronel	unto their own strength.	26		27		33
27	6	b	Leonard		27		29		31
28	7	c	Willibald		28		31		29
29	8	d	Claudius		29	7	33	4	27
30	9	e	24 p. Trin.		30		35		25
31	10	f	Martin P.		31		36		24

☽ First Quarter the 2 day, 45 min. past 11 in the morning.
● Full Moon the 9 day, 30 min. past 6 in the morning.
☾ Last Quarter the 16 day, at 11 at night.
● New Moon the 24 day, 30 min. past 9 at Night.

1	d	All Saints	aqua.	6	♀	A	36		
2	e	All Souls	aqua.	2		11	2		
3	f	☽ n. Ex ala. Peg.	pisces	5		12	36		Cloudy, cold, and
4	g	☽ n. Marchab.	pisces	19		0 M	36		☌ ♀ ☿ moist wea-
5	a	Lun. Pow. Plot	aries	3		2	8		ther at the begin-
6	♋	24 past Trinity	aires	18		3	36		ning, afterward more
7	c	☽ n. luc. Cap ♈	taur.	2		5	4		rough, stormy and
8	d	☽ n. Cap. Med.	taur.	16		6	32		□ ♂ ☿ turbulent,
9	e	☽ n. Aldebar.	gem.	0	Full	●			with snow or cold
10	f	☽ n. Alhaiot	gem.	14	4	A	42		☌ ☉ ♀ Rain and
11	g	Martin Ep.	gem.	27		5	22		such like weather is
12	a	Sol in Sagit.	canc.	11		6	14		expected till after the
13	♌	25 past Trinity	canc.	24		7	18		full Moon. Then, (if I
14	c	♄ ♎ 21	leo	6		8	34		mistake not) we shall
15	d	♃ ♐ 28	leo	18		9	46		have a more tempe-
16	e	♂ ♓ 11	virgo	0		11	0		rate Season, and in
17	f	♀ ♍ 21	virg.	11		12	10		general good wea-
18	g	☿ ♐ 23	virg.	23		0 M	10		ther, without ✶ ♄ ♀
19	a	♑ ♉ 11	libra	5		1	23		considerable alterati-
20	♍	26 past Trinity	libra	17		2	38		on, till about the 22
21	c	☽ n. luc. Coron.	libra	29		3	54		or 23 day, then we
22	d	☽ n. Lanx. Bor.	scorp.	12		5	8		may ☌ ♃ ☿ expect
23	e	☽ n. sin. Ma. Op.	scorp.	25		6	22		sharp winds and stor-
24	f	☽ n. Cap. Herc.	sagit.	8	New	●			my weather for some
25	g	☽ n. dex. hu. Op.	sagit.	21	4	A	0		days. But the end
26	a	☽ n. luc. Lyra	capr.	5	4		50		△ ♂ ♀ more calm,
27	♎	Advent Sunday	capr.	19	5		54		with close, misty,
28	c	Lun. ends.	aqua.	3	7		11		and foggy weather.
29	d	☽ n. sin. hum. ♒	aqua.	17	8		42		
30	e	St. Andrew.	pisces	1	10		8		

Vs Setting. | Moons Rising. | Moons Setting.

Saturn *riseth about* 4 *in the morning.*
Jupiter *sets a little after the Sun.*
Mars *sets about midnight.*
Venus *is Combust till towards the end, then she riseth before the Sun.*
Mercury *emergeth from the Sun-beams, and sets after the Sun.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints da.							
1	11	g	Martine		17	38	4	22
2	12	a	Cunibert		2	37	4	21
3	13	b	Eugenia		3	41		19
4	14	c	Frederick	*Caias Major*, the Great	4	43		17
5	15	d	Leopoldus	Dog, it is also called *Si-*	5	45		15
6	16	e	25 p. Trin.	*rius*, and consisteth of	6	46		14
7	17	f	Hugo	eighteen Stars. There is	7	48		12
8	18	g	Hezechias	one very notable Star in	8	7 49	4	11
9	19	a	Elizabeth	the mouth of this Dog,	9	51		9
10	20	b	Amos	being the brightest of all	10	52		8
11	21	c	Obl. V. M.	the fixed Stars; it riseth	11	54		6
12	22	d	Cæcilia	the midst of this month a-	12	55		5
13	23	e	26 p. Trin.	bout ten at night, and sets	13	57		3
14	24	f	Chrysog.	about seven in the morn	14	7 58		2
15	25	g	Catherine	ing. The Poets say that	15	8 04		0
16	26	a	Conradus	this is the Dog that Jupi-	16	13	3	59
17	27	b	Guntherus	ter set to keep *Europa*, the	17	3		57
18	28	c	Rufus	Daughter of *Agenor*, King	18	4		56
19	29	d	Saturn. F.	of *Phœnicia*, after that he	19	6		54
20	30	e	S. Andrew	had stoll'n her away, and	20	7		53
21	Dec.		Longinus	conveyed her into *Crete*,	21	8		52
22	2	g	Candidus	and for his good Service	22	9		51
23	3	a	Cassian	was placed in the Hea-	23	8 10	3	50
24	4	b	Barbara	vens.	24	11		49
25	5	c	Sabina		25	12		48
26	6	d	Nicholaus		26	13		47
27	7	e	2 Advent		27	14		46
28	8	f	Conc. M.		28	15		45
29	9	g	Joachim		29	15	3	45
30	10	a	Miltiades		30	8 16		44

December hath xxxi. days.

☽ First Quarter the 1 day, at 8 at night.
● Full Moon the 8 day, 45 min. past 9 at night.
☾ Last Quarter the 16 day, at 8 at night.
● New Moon the 24 day, 45 min. past 10 in the morning.
☽ First quarter the 21 day at 4 in the morning.

1	f	☽ n. Marchab.	pisces	16	11	A	36	Cloudy and misty
2	g	☽ n. Caud. Ceti	aries	0	1		0	☐ ☉ ♂ weather
3	a	☽ n. Cap. Andr.	aries	14	1	M	0	☍ ☉ ♄ at the be-
4	b	2 Advent	aries	28	2		30	ginning of the month
5	c	☽ n. Auf. Per. A.	taur.	12	4		0	and 'tis hoped no
6	d	☽ n. Cap Medus.	taur.	25	5		28	great alteration, but
7	e	☽ n. Aldebar.	gem.	9	6		56	generally temperate
8	f	☽ n. Alhaiot	gem.	22	Full		●	and good weather, in
9	g	☽ n. Syrius	canc.	6	3	A	52	respect of the season,
10	a	☽ n. Procyon	canc.	18	4		50	with some hoar
11	b	3 Advent	leo	1	6		4	Frosts, and perhaps a
12	c	Sol in Capric.	leo	13	7		14	little Snow. But a-
13	d	☽ n. Basiliscus	leo	26	8		30	bout the last Quarter
14	e	Ember week	virg.	8	9		44	♂ ☉ ♃ beginneth
15	f	♄ ♎ 27	virg.	20	11		0	windy and moist
16	g	♃ ♍ 5	libra	1	12		5	weather, with a
17	a	♂ ♈ 0	libra	13	0	M	5	♂ ☉ ☿ sharp Air
18	b	4 Advent	libra	25	1		16	about the 20 or 21th
19	c	♀ ♏ 27	scorp.	7	2		28	☌ ♃ ☿ day, and
20	d	☿ ♍ 27	scorp.	19	3		42	probably Snow
21	e	St. Thomas	sagit.	3	5		0	☐ ♂ ♀ therewith
22	f	☊ ♉ 9	sagit.	16	6		22	But after the New
23	g	☽ n. Luc. cap. Dr.	sagit.	29	7		43	Moon more calm, and
24	a	☽ n. Caud. Vult.	capr.	14	New		●	about the 27th day
25	b	Nat. Christ.	capr.	28	4	A	40	foggy weather, and
26	c	St. Stephen	aqua.	13	6		4	the end may probably
27	d	St. John	aqua.	28	7		33	☐ ♃ ♂ produce
28	e	Innocents	pisc.	12	9		7	windy weather.
29	f	☽ n. Caudæ Ceti	pisc.	26	10		38	
30	g	☽ n. Cap. Andr.	aries	11	12		6	
31	a	☽ n. prim. ♈	aries	25	0	M	6	

Moons Setting.

Moons Rising.

M. Rising.

DECEMBER, 1687.

Saturn *riseth about* 2 *in the morning.*
Jupiter *is Combust the most part of the Month.*
Mars *sets between* 11 *and* 12 *at night.*
Venus *riseth about* 5 *in the morning.*
Mercury *about the midst of the Month goeth to Combustion, but at the end is freed, & riseth before the Sun.*

Engl. Accompt.	Rom. Accompt.	Rom. Kalendar.	Rom. Saints da.						
1	11	b	Damasius		1	8	16	3	44
2	12	c	Valerius		2		17		43
3	13	d	Lucia V.		3		17		43
4	14	e	3 Advent.		4		18		42
5	15	f	Abraham	The North and South	5		18		42
6	16	g	Ananias	*Asselli*, or the Asses, are	6		18		42
7	17	a	Lazarus	two small Stars in the be-	7		18		42
8	18	b	Christoph.	ginning of *Leo*; they are	8		19		41
9	19	c	Loth	placed near the Ecliptick,	9		19		41
10	20	d	Amon	and rise between six and	10		19		41
11	21	e	St. Thomas	seven at night, and are	11	8	19	3	41
12	22	f	Theodose	South between two and	12		19		41
13	23	g	Dagobert	three in the morning. These	13		19		41
14	24	a	Ad. & Eve	are said to be the Asses	14		19		41
15	25	b	Christmas	that *Bacchus* and *Vulcan*	15		18		42
16	26	c	St Stephen	rode upon to Battel, when	16		18		42
17	27	d	St. John	as the Gyants made War	17		18		42
18	28	e	Innocents	with the Gods; with whose	18		18		42
19	29	f	Jonathan	braying and strange noise	19		17		43
20	30	g	David	the Gyants were so af-	20		17		43
21	31	a	Sylvester	frighted, that upon the	21	8	16	3	44
22	Janu.		1688 Circ.	suddain they forsook the	22		15		45
23	2	b	Abel	Field, and fled: The Gods	23		15		45
24	3	c	Enoch	getting the Victory, in	24		14		46
25	4	d	Methusal.	triumphing manner transla-	25		13		47
26	5	e	Simeon	ted both the Asses into	26		13		47
27	6	f	Epiphany	Heaven.	27		12		48
28	7	g	Julian		28		11		49
29	8	a	Erhard		29		10		50
30	9	b	Marcel		30	8	9	3	51
31	10	c	Paul erem.		31		8		52

A Table shewing how many Years purchase a Lease or Annuity to endure for any number of Years under 33: is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in Being, and the value of the Reversion after any number of Years.

Years of a Lease.	Years.	Months.	tenth parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	0
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3

The Use and Explanation of the TABLE.

The first Column towards the left Hand sheweth the Years of a Lease, or Annuity, & right against each Year, is the Years, Months, & Tenth Parts of a Months Purchase, that such a Lease or Annuity is worth.

EXAMPLE.

Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, & against the same you shall find, 8, 4, 6. which sheweth that such a Lease is worth eight Years four Months, & six Tenth Parts of a Months Purchase.

Years of a Lease	Years.	Months.	tenth parts.
17	10	5	8
18	10	9	9
19	11	1	3
20	11	5	7
21	11	9	3
22	12	0	5
23	12	3	6
24	12	6	6
25	12	9	4
26	13	0	0
27	13	2	5
28	13	4	9
29	13	7	1
30	13	9	2
31	13	11	1
32	14	1	0

AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against thirty, 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchase; this it were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you Commence, look in the Table against the five Years, and there you find four Years, two Months, five Tenth Parts of a Months Purchase; take this out of the Sum against thirty, which is, 13, 9, 2. The Remainder is, 9, 6, 7. which is 9 Years, 6 Months, and 7 Tenth Parts of a Month: And so much is the Reversion after five Years worth, the Remainder of thirty Years.

This is Useful, and very Easie.

SAUNDER. 1687.

The Second Part.

Containing the Eclipses; The Suns Quarterly Ingresses; The Southing of the Seven Stars, for every 5*th*. day of this Year. With Rules and Tables for the measuring of Timber; With many other things worth Observation.

The Characters of the Twelve Signs.

♈ Aries. ♉ Taurus. ♊ Gemini. ♋ Cancer. ♌ Leo. ♍ Virgo. ♎ Libra. ♏ Scorpio. ♐ Sagitary. ♑ Capricorn ♒ Aquarius. ♓ Pisces.

The Characters of the Planets, with the Dragons Head and Tail.

♄ Saturn. ♃ Jupiter. ♂ Mars. ☉ Sun. ♀ Venus. ☿ Mercury. ☽ Moon. ☊ Dragons Head. ☋ Dragons Tail.

The Aspects.

☌ Conjunction. ⚹ Sextile. □ Quartile. △ Trine. ☍ Opposition.

A Brief Chronology of Memorable things to this Year, 1687.

Since	The Creation of the World	5635
	Noah's Flood	3980
	The destruction of *Sodom* and *Gomorrah*	3589
	The destruction of *Troy*.	2869
	Brute entred this Island.	2794

Since

The Building of *London*	2794
The Building of *York*	2676
The Building of *Leiceſter*	2631
The Building of *Canterbury*	2579
The building of *Stamford*	2550
The building of *Rome*	2439
The deſtruction of *Jeruſalem* by *T. Veſ.*	1607
England firſt received the Chriſtian Faith	1507
The Tower of *London* built	1122
Duke *William* Conquered *England*	621
Weſtminſter-Hall was built	588
The Bible divided into Chapters	492
The Invention of Guns	309
The Art of Printing	247
St. *Pauls* Steeple fired by Lightening	126
New Star in *Caſſiopeia*	114
A great Snow fell *Feb.* 4.	109
Tilbury Camp on St. *James*'s day	99
A Plague in *London*, whereof dyed 30598	83
Gunpowder Treaſon, *November* 5.	82
A great Snow, and *Smithfield* paved	72
A great Plague in *London*, whereof dyed 35418	62
The Long Parliament began, *Nov.* 3.	47
King *Charles* the Firſt was Murdered	39
Two Comets appeared in *December* and *March*	23
The doleful Plague that followed them	22
London was burnt. *September* 2. 3, 4, 5.	21
The laſt great Snow	13
The wonderful Comet in *December*	7
A Comet in *Auguſt*	5
The terrible Fire in *Wapping*, *November* 19.	5
A great Earthquake, *October* the 6th.	4
The laſt great Froſt	3
The Rebellion in the *Weſt*	2

Of the Eclipſes this Year.

THE Inhabitants of this Terrene-ſtar, will this year behold but two Eclipſes; (there being no Full Moon Eclipſe this year,) they are both of them of the Sun, but neither of them viſible to us.

The

The first of them is upon the first day of *May*, about one of the Clock in the Afternoon; but the Latitude and Parallax of the Moon at that time do put her half a hairs breadth (at the least) too low, for Interposing betwixt any part of the Suns Body and us.

If the Sun do appear to be Eclipsed, half a quarter of a fingers breadth, to any part of *England*, it must be about the Lyzard-point, or the Lands end, whither the curious may repair to make Observation. But though this Eclipse appear not to us, yet it is a great one, and may in part be seen by the Inhabitants of *Spain* and *Morocco*, also in *Libia deserta*, *Guinea*, and about the River *Niger*, and it will appear very great to those that Navigate upon the Sea called *Mare del Nort*, about the Island of St. *Paul*, also to the Inhabitants of *Egypt*, *Nubia*, and beyond the Equator, about *Congo*, *Angola*, *Zanzibar*, &c.

The second Eclipse happens upon the 26th day of *October*, about six of the Clock in the Morning, and therefore invisible unto us, the Sun not being Risen: But it will appear very great to them that inhabit far *Eastward*, and near to the Equator; It is Celebrated in thirteen degrees of *Scorpio*, and within a degree of the Moons South Node.

Astrologers observe, that an Eclipse of either of the Luminaries happening in *Taurus*, *Virgo*, or *Capricorn*, prenotes great lack and scarcity of Grain and Fruit. If it happen in *Cancer*, *Scorpio* or *Pisces*, death of the common people, long continuing troubles, wars, death of fishes, water-fowls, *&c.* but these Eclipses not being visible to us, we need not therefore fear their effects. Thus much of Eclipses.

Of the Four Quarters of the Year, and first of the Spring.

THE Spring Quarter, according to our vulgar account, begins at such time as the Earth by entring *Libra*, doth cause the Sun to appear to enter *Aries*, which this year happens upon the 10th day of *March*, about 8 of the Clock in the Morning, making equal day and night to all the World, (except under the *Poles*). Now as there is an equality in the day and night, so is there in the temper of the Air, by which the pores of the Earth are relaxed, and a vivifying fume evaporating, doth ascend by the cold and chillified Roots of Herbs and

Plants, and produceth their vegetable Life. The nature of this Quarter is generally hot and moist, which if it should prove otherwise, it bringeth sudden strange diseases, and noxious distempers. Such persons as are naturally Melancholly do enjoy their Healths the best this Quarter; The Sanguine the contrary; Youth and Childhood are inclinable to many distempers, but Age is vivacious and lively. Those diseases that proceed from excess and putrefaction of blood are most dangerous, but such as have their Original from Melancholly, are less hurtful.

Here some would perhaps have erected a Figure of the Heavens, and from it have given their judgment of the condition and state of the ensuing year; But what need of that, we have much more certain Prognosticks of evil and mischief to come upon us, than the worst position of the Heavens, or the most afflicting Rays of the most malignant Stars; *viz.* The abounding of debauchery and wickedness; such as those horrid Oaths, Blasphemies and Curses which are so frequently heard amongst us; The intemperance and uncleanness, the swinish drunkenness and excess, with immoderate gaming, and their Consequents, Quarrelling and Duelling. These (unless God through his Mercy be pleased to divert, or forbear to inflict his Judgments) will not go unpunished, though the Heavens look never so propitiously upon us: And should the Heavens seem to portend never so much evil and mischief to us, yet if we repent of, bewail, and amend our sinful lives, then shall all these evils be turned from us, then we need not fear the Influences of the Stars, though they behold us with the most malignant Aspect; neither need there be any further enquiry how they stand affected, unless it be to satisfie such as are of the same Opinion with those that the Poet takes notice of in his first Canto on *Hudibras*, where speaking of his Companion *Ralpho*, says,

He could foretell whatsever was
By consequence to come to pass.
As death of great men, alterations,
Diseases, Battles, Inundations.
All this without th' Eclipse of Sun,
Or dreadful Comet, he hath done;
By inward light, a way as good,
And easie to be understood;

But with more lucky hit than those,
That use to make the Stars depose,
Like Knights o'th' post, and falsly charge,
Upon themselves, what others forge:
As if they were consenting to
All mischief in the world men do;
Or like the Devil, did tempt and sway 'em
To Rogueries, and then betray 'em.

I shall conclude the Spring Quarter with my usual advice, *viz.* in *March* be not too busie in purging or bleeding, but rather Bathe, and use such meats, or medicines, as purge and sweeten the blood; in *April* you may freely bleed or bathe, if there be occasion, also to purge the Stomach by potion or otherwise is very good, but drink moderately for it is the most dangerous time of all the year for excessive drinking, also forbear Salt meats: in *May* you may purge gently the body or blood, or open a Vein; to drink clarified whey is good, but forbear Wine, and such meats as are of a hot quality.

Of Summer.

SUmmer Quarter this Year beginneth the 11th. day of *June*, 37 minutes past 10 in the morning; then the Sun entring the Tropical sign Cancer, maketh the longest day & shortest night to all the inhabitants on this side the Equator. The natural constitution of this quarter is hot and dry, sympathizing with choler and melancholy, persons of Phlegmatick constitutions are best in health this quarter the cholerick the contrary, now antient people revive, but young people languish through the excess of blood and choler with which they abound, and they are much exposed thereby to Feavers, especially the Tertian, and those diseases are more dangerous that proceed from blood, and choler, than those that arise from blood and phlegm: in the month of *June* use not such meats as ingender raw crude, and moist humours, now a cup of good White-wine taken fasting purges choler, and offensive humours from the Stomach, eat moderately, and such meats as are easily concocted. Now 'tis excellently wholesome to rise early, and to exercise the body with moderate walks. In *July* beware of bleeding or purging unless there

be great neceſſity, in this and the next month refrain immoderate exerciſe and venery, and drink not much Wine for now it dryes the Stomach and Liver, and doth too much increaſe choler, beware alſo of eating ſuch meats as ingender melancholy and of taking cold.

Of Autumn.

AUtumn doth this year begin upon the 13th. day of *Septemb.* about 51 *min.* after one of the clock in the morning, the Earth then entring Aries, or the Sun Libra, again making equal day and night. This quarter is naturally cold and dry reſembling melancholy, youth is now lively, but aged perſons languiſh, perſons of moiſt and plegmatick conſtitutions are now beſt in health, but melancholy the contrary. In *September* eat moderately of all ſuch meats and fruits as your ſtomack deſires, for they are now in their vigour and perfection, in this month and next you may bleed or purge, if there be occaſion, but in *November* melancholy increaſeth, and blood decreaſeth, to vomit ſometimes may do well but bathing is not good, now ſalt or powdered meats may be eaten without any prejudice, roaſted meats and wild Fowl are now held to be very wholſom, in this quarter beware of taking cold.

Of Winter.

WInter quarter begins the 11th. day of *December* about 53 *min.* paſt one of the clock in the Afternoon, the ſun appearing in the firſt ſcruple of the Tropical ſign Capricorn, making the ſhorteſt day, and longeſt night to all on this ſide the Equator. This quarter is cold and moiſt, youth therefore and cholerick perſons are beſt in health, but aged and plegmatick the contrary. In *December* melancholy and phelgm do much increaſe, which are heavy, dull, and cold, therefore keep warm and eat ſuch meats as are of a hot quality, neither bleed nor purge in this month, or the next, but in *February* you may if there be occaſion, as alſo bathe or take potions, if there be neceſſity, you may without prejudice.

Having in the Kalender mentioned ſeveral fixed ſtars, and ſometimes told you the time of their Riſing, or their coming to South, I will here ſhew you how to find it all the year more exactly. In the following Table you have firſt the ſeven ſtars Southing for every fifth day, ſecondly the difference in ſouthing, be-

between those several stars and the seven stars, which added to the time of the 7 stars southing giveth theirs. Thus I would know what time the great dog star is south the 6th. day of *Feb.* I then find the 7 stars south at 5 *hou.* 28 *min.* to which I add 3 *hours* 2 *min.* the difference annexed to the great Dog, and it gives 8 *hou.* 30 *min.* the time of its southing to which if you add the the semi-diurnal Arch, 4 *hou.* 31 *min.* it gives 13 *hou.* 1 *min.* or 1 *hour* 1 *min.* in the morning for the time of its setting.

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A Table shewing the Hour and Minute of the Seven Stars coming to South, every 5th day of this year, 1687.

Moneths	Dayes of the Moneth, 1 H.	1 M.	6 H.	6 M.	11 H.	11 M.	16 H.	16 M.	21 H.	21 M.	26 H.	26 M.
January	7	A 56	7	A 35	7	A 13	6	A 52	6	A 31	6	A 12
February	5	A 48	5	23	5	9	4	50	4	31	4	13
March	4	A 0	3	42	3	24	3	5	2	47	2	29
April	2	A 9	1	50	1	32	1	13	0	54	0	34
May	0	A 16	11	M 56	11	M 36	11	M 16	10	M 55	10	M 35
June	10	M 1	9	51	9	30	9	10	8	48	8	28
July	8	M 8	7	48	7	27	7	7	6	48	6	28
August	6	M 6	5	48	5	29	5	10	4	51	4	33
September	4	M 12	3	54	3	36	3	19	3	2	2	42
October	2	M 24	2	5	1	46	1	27	1	7	0	48
November	0	M 25	0	5	11	A 41	11	A 18	10	A 56	10	34
December	10	A 14	9	A 52	9	29	9	7	8	44	8	22

A Table shewing the difference in hours and minutes between the coming to south of several fixed stars, and the seven stars, as also their semi-diurnal Arches thereby to find their rising and setting.

Names of the Stars.	*Diffe. south.* h.	m.	*Semid. Arches* h.	m.	*Names of the Stars.*	*Diff. south.* h.	m.	*Semid. Arches* h.	m.
Aldebaran E.eye	0	49	7	28	Lions heart, Basil.	6	23	7	13
2d. in Orions Girdle	1	51	5	54	Virgins Spike	9	40	5	9
Gr. Dog. Sirius	3	2	4	31	Arcturus	10	32	8	0
Castor 1st. head ♊	3	46	9	47	South ballance	11	5	4	40
Lit. Dog. Procyon	3	54	6	32	North ballance	11	31	5	16
Pollux, 2d. head ♊	3	57	9	4	Northern Crown	11	52	8	55
Northern Ass.	4	56	8	12	bright ✶ Lyræ	14	57	*sets not*	
Southern Ass.	4	58	7	49	bright ✶ Vulturis	16	6	6	43

Here followeth some few Rules, and Tables, for the mensuration of Superficies and Solids.

FOr the Mensuration of Superficial or flat measures, such as board, Glass, Pavement, Hangings, &c. it will be necessary

ceſſary to know how to meaſure any plain ſuperficial figure, as the Square, Long-ſquare, or Parallelogram, Triangle, Circle, parts of the Circle, &c. examples of all which do here follow.

I. *How to meaſure a Square.*

Let there be a ſquare floor, or pavement, the ſides whereof are each of them 5 feet 6 inches, and 'tis required to know how many ſquare, or ſuperficial feet are contained therein. First (a good plain way to avoid Fractions will be to) Reduce the whole ſide into inches, 5 feet, 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the ſuperficial Content in inches; then divide 4356 by 144 (the ſquare inches in one foot) and the Quotient will be 30 feet, and 36 inches remaining, which is the number of inches in one quarter of a foot; ſo that in ſuch a ſquare is contained 30 feet and one quarter. See the Margin.

66
66
396
396
4356
4356
144
(30
432
36

II. *To meaſure the Long-ſquare or Parallelogram.*

Suppoſe there be a Pavement whoſe length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and ſo many ſuperficial feet are contained in that Pavement.

72
72
144
12
864

III. *To Meaſure a Long Superficies, which is broader at one end than at the other.*

Let there be a ſuperficies whoſe length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the leſſer end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one

72
42
144
288
3024
144
288 (21
144

one foot) the Quotient will be 21 feet, and nothing remaining, ſo that there is exactly 21 feet in ſuch a ſuperficies.

IV. *How to Meaſure Triangles.*

All Right lined Triangles are meaſured by this general Rule.

Multiply half the length of the Baſe by the whole Perpendicular. Or, the whole length of the Baſe by half of the Perpendicular.

Suppoſe the Baſe of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Baſe) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Baſe) being multiplyed by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of ſuch a Triangle.

V. All *Trapezias*, or figures with four unequal ſides ; alſo Multangular, or many ſided irregular figures, muſt be divided into Triangles, and thoſe Triangles meaſured as before is taught, and their ſums added together will give the Content of ſuch irregular figures. And note, that the leaſt number of Triangles, into which any plot or irregular figure may be reduced, will be leſs by two than the number of the ſides of ſuch irregular figures.

VI. *How to Meaſure Circles, and parts of Circles.*

The Diameter of every Circle hath ſuch proportion to the circumference of the ſame Circle as 7 hath to 22. Therefore the Diameter being given to find the circumference, you muſt multiply the Diameter by 22, and the Product being divided by 7, the Quotient will be the circumference. Thus, ſuppoſe the Diameter of a Circle be 14, multiply 14 by 22, the Product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whoſe Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22, and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19, and $\frac{2}{22}$ or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a circle. Multiply half the circumference by half the Diameter, the product

is

is the content of the circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter $19\frac{2}{2\,2}$ the half whereof is $9\frac{1\,2}{2\,2}$, by which multiplying 30, the product will be $286\frac{4}{1\,1}$ which is the ſuperficial content of ſuch a circle; or,

By the Diameter to find the Area of the circle. Firſt, ſquare the Diameter, multiply the ſquare by 11, and divide the product by 14, the Quotient is the ſuperficial content of the circle.

Let the Diameter be as above $19\frac{1}{1\,1}$ the ſquare whereof is $364\frac{5\,6}{1\,2\,1}$ this multiplyed by 11 produceth $4009\frac{1}{1\,1}$ which being divided by 14 the Quotient is $286\frac{4}{1\,1}$ as above, being the ſuperficial content of ſuch a circle.

To Meaſure the ſuperficial content of half the circle, the quarter of a circle, or of any other ſection of a circle, more or leſs, having the ſemidiameter given.

Multiply half of the compaſs thereof by the ſemidiameter of the circle, ſo ſhall you have the content.

Of the Menſuration of Solids.

AS Plain or Superficial Meaſure conſiſteth of two dimenſions, namely, length and breadth; ſo Solid meaſures conſiſteth of three dimenſions, namely, length, breadth and thickneſs.

To Meaſure any kind of Timber, either Square, Triangular, Round, or of any other Faſhion, provided it be ſtraight and equal all along.

Caſt up the ſuperficial Content at the end thereof, by the Rules before going, for the finding the Content of the Square, Triangle, Circle, *&c.* which Superficial Content being multiplyed by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other ſolid matter) whoſe breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many ſolid feet are contained therein. Firſt, multiply the breadth 18 by the depth 13, the product is 234, being the ſuperficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the ſolid Content

in

in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one ſolid foot) and the quotient will be 19, aud 396 inches remaining, which is 19 ſolid feet, and almoſt one quarter of a foot, and ſo much is the ſolid content of ſuch a piece.

A ſecond Example of a round piece. Let there be a round piece of Timber whoſe compaſs is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the ſolid content thereof. Firſt, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, ſo ſhall you find the Diameter to be $19\frac{1}{11}$: Then by either of the ways before taught, *viz.* by multiplying half the circumference by half the Diameter; or by (ſquaring, or) multiplying the Diameter in it ſelf, and multiplying that ſquare by 11, and dividing the product by 14, the ſuperficial content of the end of ſuch a piece will be found to be $286\frac{4}{11}$ inches. Now multiply this $286\frac{4}{11}$ by the length of the piece 240, and the product will be $68727\frac{3}{11}$ the content in inches, which being divided by 1728, the Quotient will be 39 feet, and 3 quarters of a foot, and $39\frac{3}{11}$ inches remaining, which is the ſolid content of ſuch a piece of Timber.

But had this piece of Timber been meaſured by that egregiouſly falſe way of taking the fourth part of the Girt for the ſide of the ſquare equal, it would have been found to be but 31 feet, and one quarter of a foot, which is above one fifth part leſs than the truth, it being 39 feet, and above 3 quarters.

In behalf of that erroneous way many do plead, that in round Timber there is great loſs in chipping to bring it near a ſquare, therefore that way may be allowed; but this is very unequal; in great Timber there being little loſs, in ſmall Timber much, let therefore the quality be conſidered, rather than make ſuch unequal amends by a falſe quantity.

Of the Menſuration of Tapering Timber, either round or ſquared, ſuch as Fruſtums of Cones and Pyramids.

FIrſt, find the ſuperficial Area of each end of the piece, and multiplied the one Area by the other. Secondly, out of the

the product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet are contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diameter $10\frac{1}{2}$) will be found to be $346\frac{1}{2}$, and the Area of the Circle at the lesser end will be 154: These multiplyed together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplyed in it self produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be $731\frac{1}{2}$. Lastly, multiply $731\frac{1}{2}$ by 80 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

To find the Content of Tapering Timber, other wayes than is taught above.

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being substracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Base by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, as the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. *Example*, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44; hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, if 7 give 20 feet what will 21 give; Answer, 60 feet, being the whole length of the Cone; now the superficial

content

content of the Base of this Cone, (being 346½ inches) multiplyed by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154, being multiplyed by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being substracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal all along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth columns of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches, and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches the length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid foot, of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 36 inches square.

Side of the Square.	Length of a solid foot.			Side of the Square.	Length of a solid foot.		Side of the Square.	Length of a solid foot.	
Inch.	Fe.	Inc.	10ths	Inch.	Inc.	10th.	Inch.	Inc.	10th.
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	2	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	3	0	36	1	2

A Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com.	len. of a foot		Com.	len. of a foot		Com.	len. of a foot	
Inch.	Inch.	100 p	Inch.	Inch.	100 p.	Inch.	Inch.	100 p.
11	179	46	41	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

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